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MEMORANDUM FOR: Deput

Deputy for Materiel. OSA

SUBJECT

Dual Liquid Oxygen Equalization System

REFERENCE

Proposal; Same Subject

1. Recommend no further effort be undertaken by to investigate LOX equalization feeding at this time.

- 2. Proposal A (see attachment) is not acceptable because of the requirement to increase the converter pressure to 300 psig. Early in the development of this liquidoxygen system, pressure-control valves proved to be the "weakest link in the chain" and to re-introduce such a concept would certainly seem to be unwise at this point.
- 3. Proposal B would operate on a sensing valve equalizing by the weight of liquid oxygen remaining in each converter. Although the engineer denies the dependency of one system upon the other in this proposal, both the operational diagram and the narrative summary illustrate mechanical enslavement which would seem to negate the redundancy characteristic built into this dual oxygen system.
- 4. Proposal C operates on the same concept as System B except oxygen pressure is used for equalization instead of liquid weight and again brings up the question of pressure

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	reducer valves. Additionally, gauge, which would be necessary not proved itself in tolerating  5. In view of the above a ferry missions where even feediwith more stringent LOX servicit adjustments, it appears that the feeding may be self-limiting an will be necessary.	here, historically has positive 'G'.  nd with the recent long ng was demonstrated and ng procedures and regulator e problem of unequal 00	
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	Attachment	AMS/OSA	
	As stated above		
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